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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,976	05/22/2006	Jong Chul Bang	9988.327.00	3738
30827 7590 03/25/2009 MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006			EXAMINER	
			RIGGLEMAN, JASON PAUL	
WASHINGTON, DC 20000			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			03/25/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/579,976	BANG, JONG CHUL	
Office Action Summary	Examiner	Art Unit	
	JASON P. RIGGLEMAN	1792	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
<ul> <li>A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period w</li> <li>Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
<ul> <li>1) ☐ Responsive to communication(s) filed on</li> <li>2a) ☐ This action is FINAL. 2b) ☑ This</li> <li>3) ☐ Since this application is in condition for alloward closed in accordance with the practice under Expression in the practice of the closed in accordance with the closed in accordance with the practice of the closed in accordance with the</li></ul>	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
<ul> <li>4)  Claim(s) 1-19 is/are pending in the application. <ul> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-19 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul> </li> </ul>	vn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 22 May 2006 is/are: a) ☐ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner 11.	accepted or b) objected to be drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of the priorical series of the</li></ul>	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 2/28/2008.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: Foreign reference	ate	

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#### **DETAILED ACTION**

### Claim Objections

1. The claims are objected to because the lines are crowded too closely together, making reading difficult. Substitute claims with lines one and one-half or double spaced on good quality paper are required. See 37 CFR 1.52(b).

### Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. The term "distant exterior" in claim 18 is a relative term which renders the claim indefinite. The term "distant exterior" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.
- 4. Claims 1, 4, 11, 16, and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The structure of the "connecting portion" is not understood. Note: this appears to be critical to the applicant's invention. In regards to claim 18, it is not understood how the wire connecting portion prevents water from contacting the wire connecting portion -- it appears that the filler prevents water contact.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sassone (German Patent Publication No. DE19650861) in view of Riller et al. (German Patent Publication No. 3728608).
- Sassone teaches an aqua stopping device (1A) for a washing device having a valve body 7. (valve housing 2A) including a passage (conduit 3A) formed within. At least one valve (solenoid valve 4) opens and closes the passage. A signal wire (electrical cable 21A) is connected to a terminal of the valve. A connecting wire (terminal ends 37) is connected to the signal wire and extends outward a predetermined distance. A connecting portion is provided at a portion connecting the signal wire to the connecting wire. An inner case (coat body 30) encloses the connecting portion. The inner case is attached to an inner surface of the outer case. The inner case includes an interior having filler injected (filled) therein in entirety. The connecting portion has filler injected there around. A connecting tube is attached to a lower portion of the valve body for passing wash water there through. An outer tube (element 33) is disposed around an exterior of the connecting tube for enclosing the connecting tube. The valve is aligned in plurality along the passage. The connecting portion connects two signal wires to one connecting wire. The valve is a solenoid valve. A signal wire is connected to a terminal of the solenoid valve. Filler insulates the connecting portion from an outside. The solenoid valve and signal wire are provided in duplicate. The washing device includes the tub of a dishwasher A connecting tub for supplying water to the tub. The wire connecting portion prevents water from contacting the wire connecting portion. The inner case includes an interior space filled with filler. A leak detector is provided at an exterior (water catchment basin) of the

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tub for detecting leaks and the aqua stopping device operates according to a signal from the leak detector (see English machine translation).

8. Sassone does not teach that an outer case surrounding and connected to the inner case and forming an empty space; however, Riller et al. teaches outer case which surrounds the inner case and is connected to the inner case, Fig. 2. The device of Riller et al. has an empty space formed between the outer case and inner case. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Sassone with Riller et al. to create a wash-stopping device which had room to install additional components as needed inside the outer case to achieve the expected result and to connect the inner to outer case to improve stability to achieve the expected result. As a result, the use of filler at only the connecting portions would increase the amount of space inside the modified device to achieve the expected result of having additional room for more components.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON P. RIGGLEMAN whose telephone number is (571)272-5935. The examiner can normally be reached on M-F, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Barr/ Supervisory Patent Examiner, Art Unit 1792 Jason P Riggleman Examiner Art Unit 1792

/J. P. R./ Examiner, Art Unit 1792